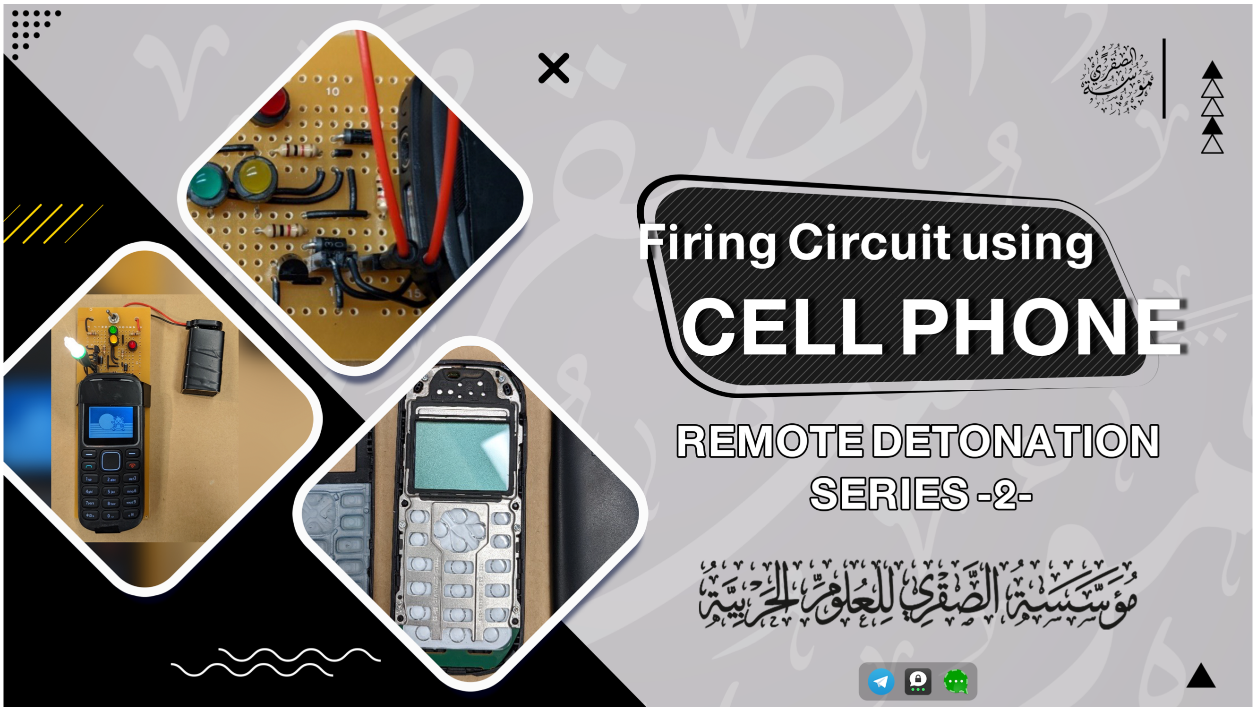
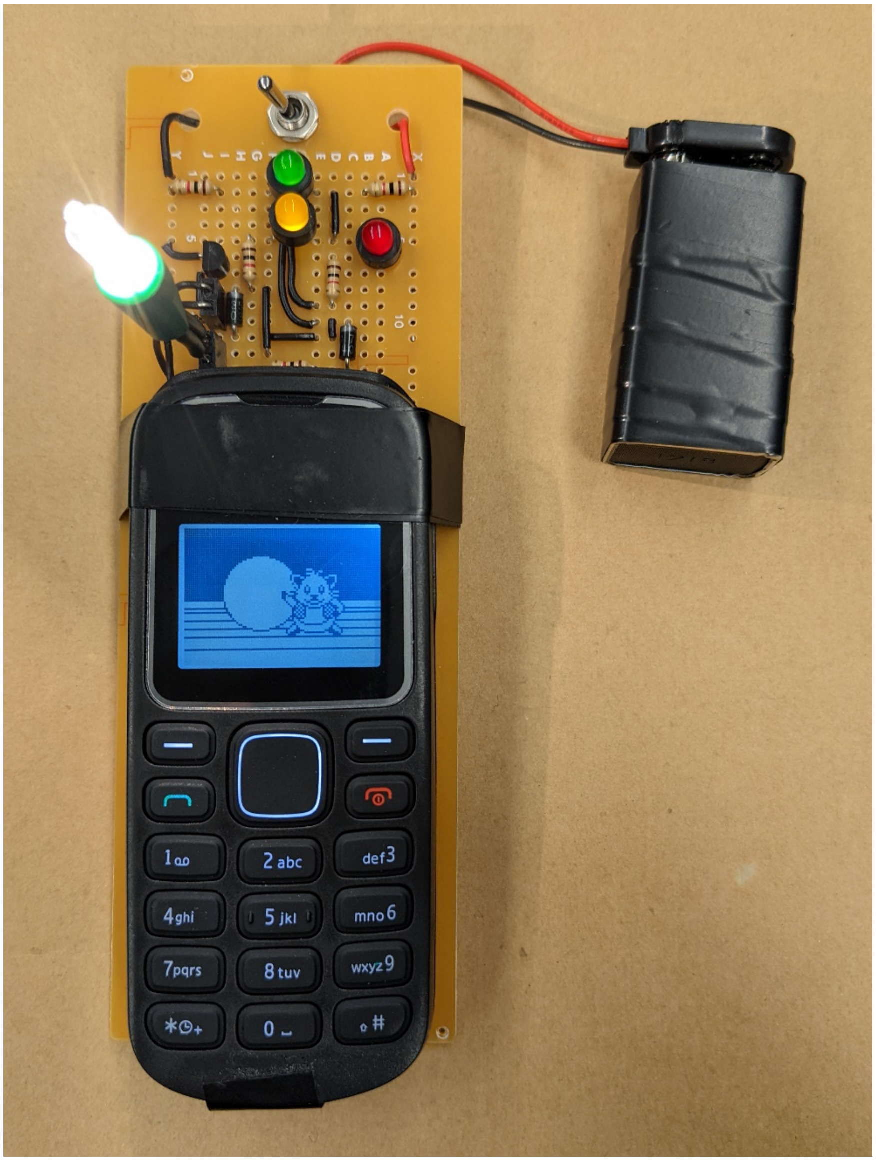
In the name of Allah, the Most Gracious, the Most Merciful

Al-Saqri foundation for military sciences
Present

Firing Circuit using a cell phone


Firing Circuit using
CELL PHONE
REMOTE DETONATION
SERIES -2-
مؤسسة الصقري للعلوم الحربية



This circuit can be used to fire detonators. Anything that makes the phone ring, or make sounds from its speaker can be used to fire the explosives (phone call, alarm, etc.). Pictured, the phone is making sounds, and lighting up a bulb that can be used in a detonator.

To ensure the circuit will fire, use ONLY a Nokia 1280.

Tools Required

- Soldering Iron
- Solder wire
- Solder wick
- Wire Strippers
- Wire Cutters
- Small Plyers
- Small Screwdrivers
- Tape

Parts Required

- Solder Breadboard
- Solid Wire
- Nokia 1280
- 1 Red LED
- 1 Green LED
- 1 Yellow LED
- 2 Diodes
- 5 1kOhm resistors, 0.25W
- 1 Snap Connector for battery
- 1 Transistor (NPN)
- 1 SPST Switch
- 9V battery

Parts Recommended

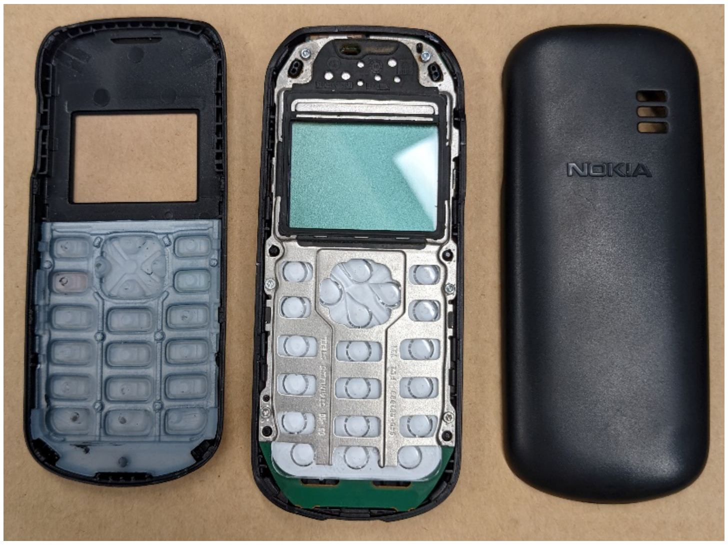
- 2-Pin Header female connectors, for easy attachment of detonator (could be soldered directly the breadboard)
- Extras of all parts required
- Drill and bits

Modifying the Phone

The Nokia 1280 must be taken apart and modified before using it in a firing circuit. Follow these instructions to solder wires to the speaker. The power from the speaker will be used to fire the detonator.

Step 1

Take apart the phone. Remove the back cover, the battery, and the front cover, so the phone looks like the picture. You will have to put it back together, so use caution to not damage the phone.

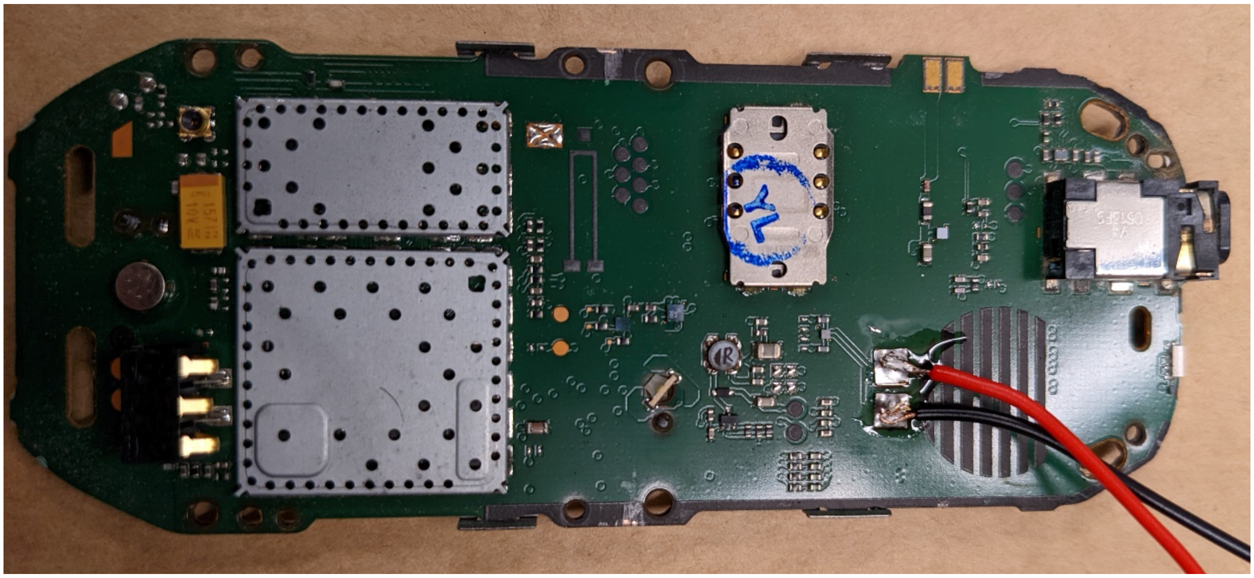


Step 2

Take out the small screws holding the electronics board into the back cover, then pry the board out of the phone. **Caution!** Be very gentle. If the electronics board breaks, then the phone will no longer work.

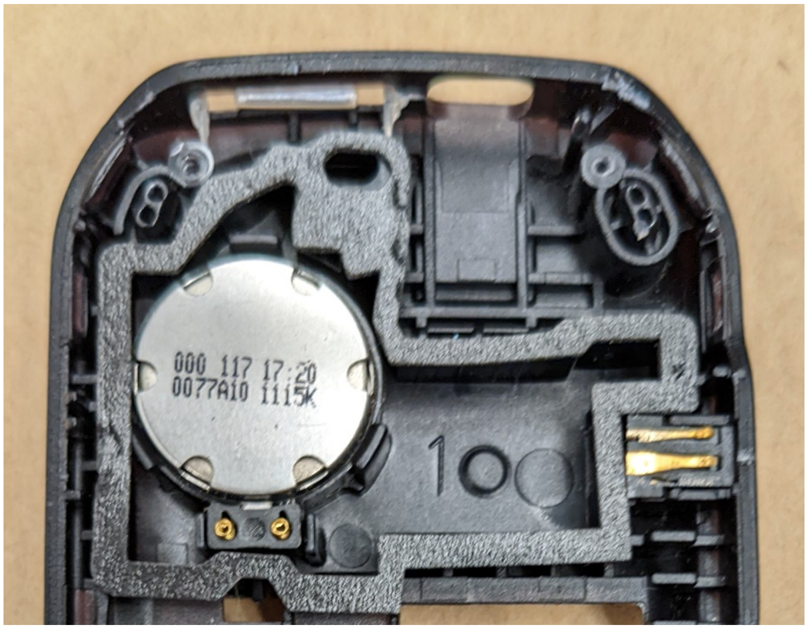
Step 3

Solder two wires to the large, gold, square sections. These wires should be about 15cm long each, it will be easier to shorten them later if needed. One layer of electrical tape can be used to help secure the wires if needed.



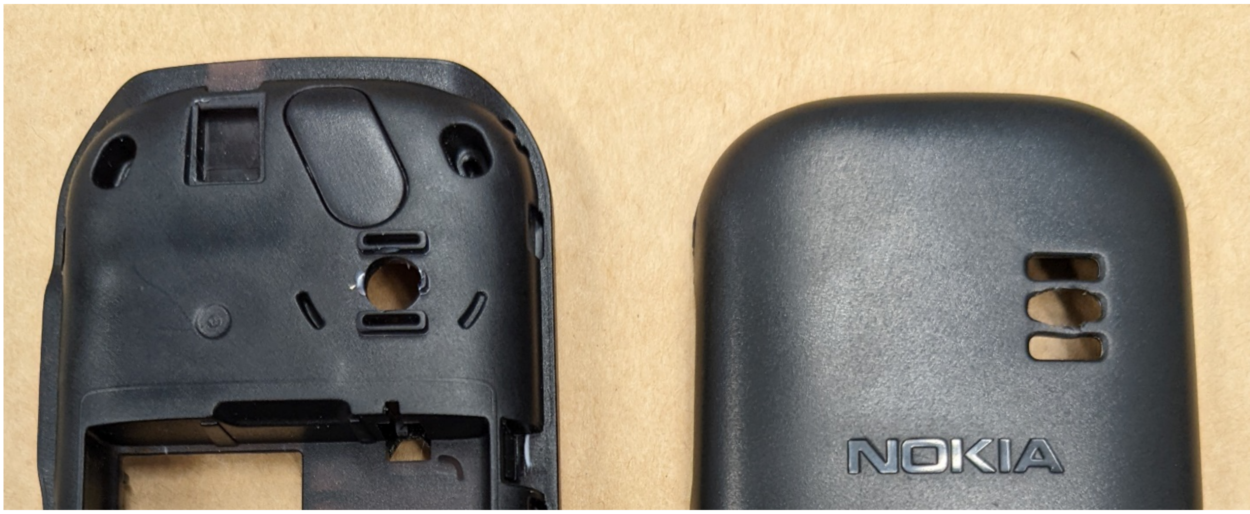
Step 4

Remove the speaker from the phone. With the speaker out of the way, it will be easy to put the phone back together with the new wires passing through the plastic case. Also, the phone will no longer make sounds at all, making it less detectable when planting the explosive.



Step 5

Drill or cut holes in the two back covers for the two new wires to pass through. Make them big enough to pull both wires through, but small enough to still hold the wires securely.



Step 6

Put the phone back together, with the new wires passing through the holes made in the covers. Make sure to put in all the screws so the electronics board is held securely in place.

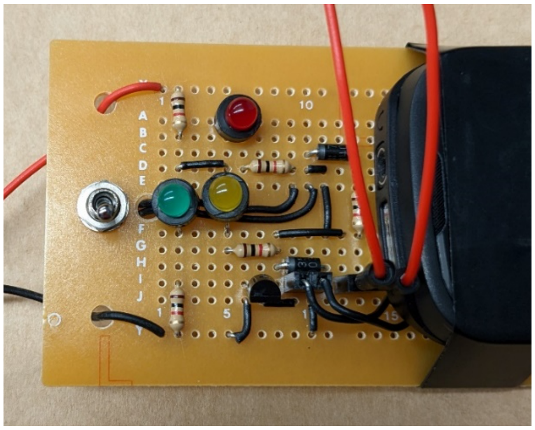
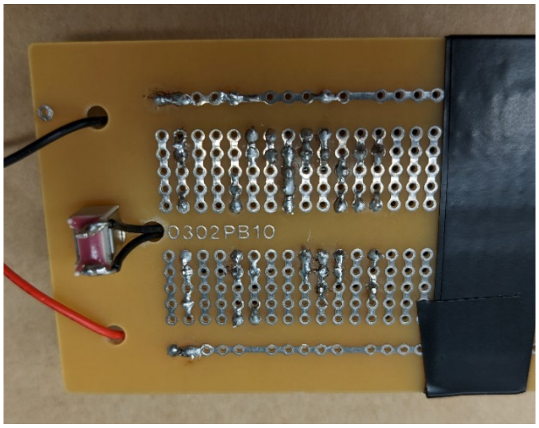
Build the Circuit

It is recommended to have patience in this part, and build the circuit exactly as the pictures show. Pay close attention to the columns and rows. If any part is backwards or incorrect, then the circuit may fail to fire the detonator. It is important to use the solder board to maintain good connections.

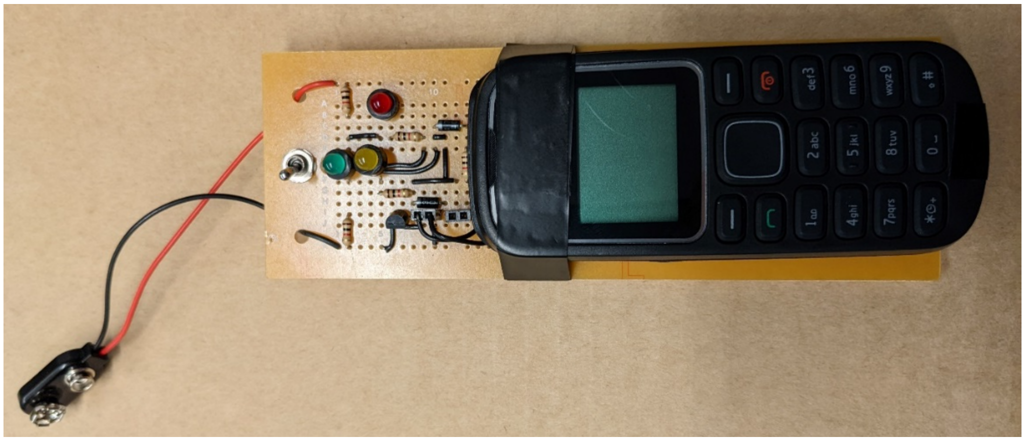
Caution! Do not connect the detonator until you are ready for it to explode. The switch will protect you while connecting the detonator, and the Red light turning on will ensure operation of the detonator during the build and test.

Build

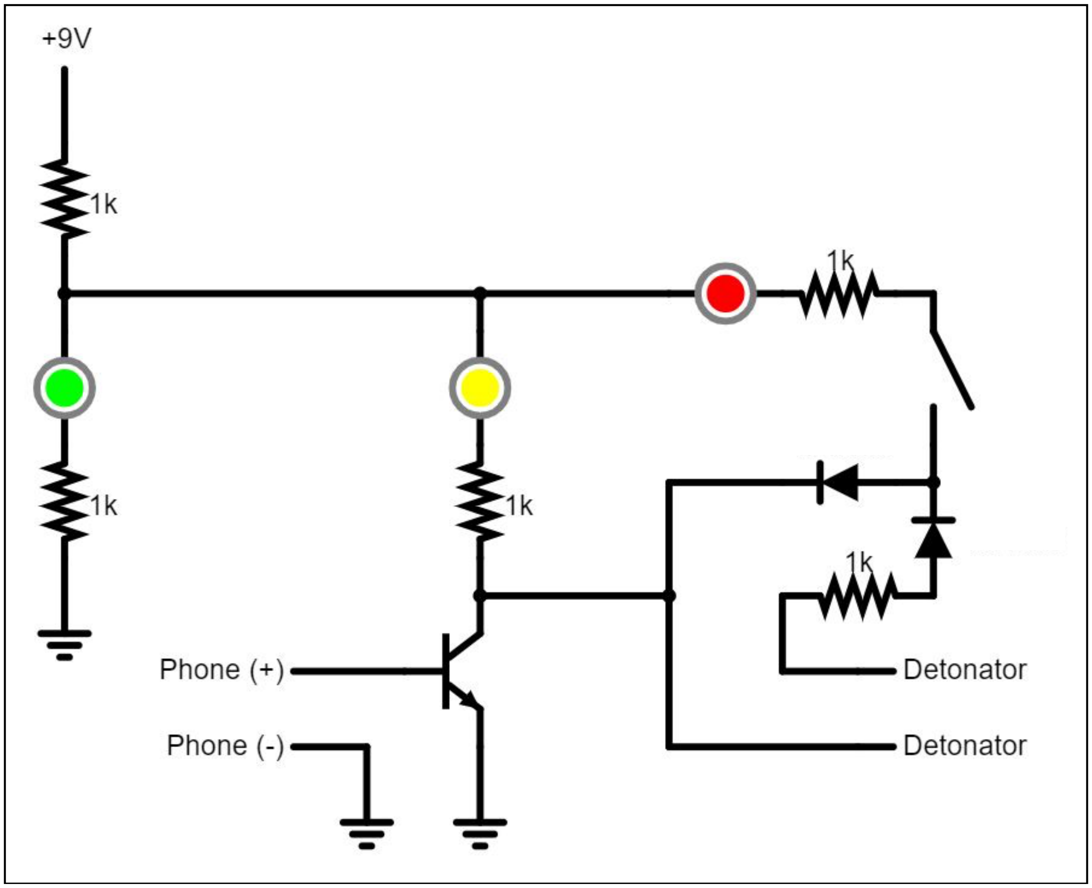
- Layout the components exactly as shown in the pictures so the same connections are made. Pay very close attention to the holes in the rows and columns. If your project is misaligned, then it will not work.
- To mount the switch, drill an appropriately sized hole and use the supplied parts to attach the switch to the solder breadboard.
- Use the soldering iron and solder to make the connections on the bottom of the Solder Breadboard. Be careful not to make a solder bridge across the columns.
- Snip the extra leads off the bottom to smooth the bottom of the board.
- Connect the speaker wires to the header connector or solder them to the board in place of the connector

Red Wire Pair – Detonator (Solder to breadboard or use 2-Pin header connector if desired)
Black Wire Pair – Phone Speaker (Solder to breadboard or use 2-Pin header connector if desired)
Wires under Green and Yellow LEDs – SPST Switch



Wiring Diagram

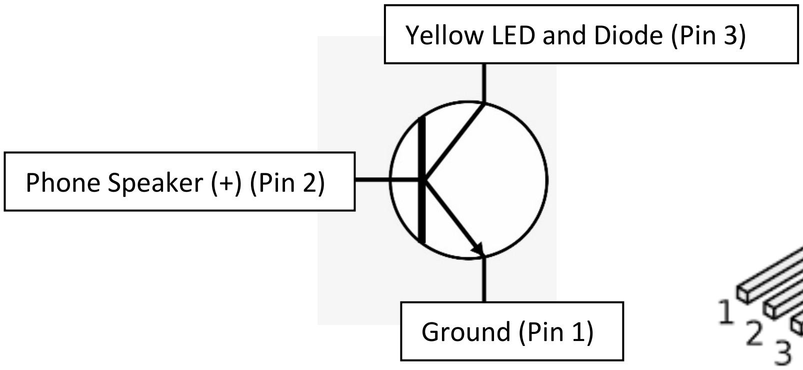

+9V
1k
1k
1k
1k
1k
Phone (+)
Phone (-)
Detonator
Detonator

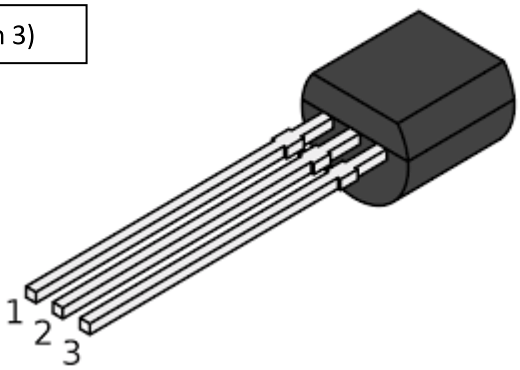
Important Note

- If the Red, Green, or Yellow LED doesn't work, they may be backwards.
- Switch open = safe, Switch closed = fire

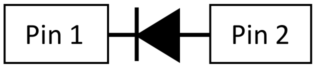
Wiring Diagram for the NPN Transistor

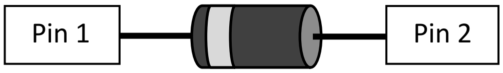
Connect the transistor in this way


Yellow LED and Diode (Pin 3)
Phone Speaker (+) (Pin 2)
Ground (Pin 1)



Wiring Diagram for the Diode





Operation

- The Green light is on when the battery is applied
- The Yellow light is on when an audio signal being received from the phone, but no power is applied to the detonator (SAFE)
- The Red light is on when an audio signal being received from the phone, and the detonator WOULD FIRE if connected
- Add a valid SIM card to the phone to take the phone out of “Demo Mode” and enable calls, alarms, text messaging. To test, any action that will produce sound from the phone will fire the system (ringtones, games, etc.)

Power On
(Green Light ON)

Functional, but safe
(Yellow Light ON)

Functional, would fire detonator
(Red Light ON)

Done

And God is the one who provides success

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